

Texas Birth Defects Registry (TBDR) Annual Report

Table 4. Prevalence of Selected Birth Defects by Mother's Race/Ethnicity, Texas, 1999–2022

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Central Nervous System				
Anencephaly*	Non-Hispanic (NH) White	659	2.07	1.91 – 2.23
	NH Black	187	1.77	1.51 – 2.02
	Hispanic	1,303	2.94	2.78 – 3.10
	NH Asian/Pacific Islander	67	1.70	1.31 – 2.15
Spina bifida (without anencephaly)*	NH White	1,101	3.46	3.25 – 3.66
	NH Black	278	2.63	2.32 – 2.94
	Hispanic	1,937	4.37	4.17 – 4.56
	NH Asian/Pacific Islander	58	1.47	1.11 – 1.90
Encephalocele*	NH White	250	0.78	0.69 – 0.88
	NH Black	137	1.29	1.08 – 1.51
	Hispanic	468	1.06	0.96 – 1.15
	NH Asian/Pacific Islander	23	0.58	0.37 – 0.87
Microcephaly (severe, head circumference <3rd percentile)*	NH White	1,111	3.49	3.28 – 3.69
	NH Black	1,086	10.26	9.65 – 10.87
	Hispanic	2,445	5.51	5.29 – 5.73
	NH Asian/Pacific Islander	192	4.86	4.17 – 5.55
Holoprosencephaly*	NH White	268	0.84	0.74 – 0.94
	NH Black	105	0.99	0.80 – 1.18
	Hispanic	544	1.23	1.12 – 1.33
	NH Asian/Pacific Islander	21	0.53	0.33 – 0.81
Hydrocephaly (without spina bifida)*	NH White	2,591	8.13	7.82 – 8.45
	NH Black	1,025	9.68	9.09 – 10.28
	Hispanic	3,657	8.25	7.98 – 8.51
	NH Asian/Pacific Islander	223	5.64	4.90 – 6.38
Eye & Ear				
Anophthalmia or Microphthalmia*	NH White	907	2.85	2.66 – 3.03
	NH Black	258	2.44	2.14 – 2.74
	Hispanic	1,447	3.26	3.09 – 3.43
	NH Asian/Pacific Islander	82	2.08	1.65 – 2.58
Cataract	NH White	633	1.99	1.83 – 2.14
	NH Black	244	2.31	2.02 – 2.59
	Hispanic	856	1.93	1.80 – 2.06
	NH Asian/Pacific Islander	67	1.70	1.31 – 2.15
Anotia or Microtia*	NH White	741	2.33	2.16 – 2.49
	NH Black	175	1.65	1.41 – 1.90
	Hispanic	2,313	5.22	5.00 – 5.43
	NH Asian/Pacific Islander	118	2.99	2.45 – 3.53
Cardiovascular				
Common truncus*	NH White	208	0.65	0.56 – 0.74
	NH Black	78	0.74	0.58 – 0.92
	Hispanic	392	0.88	0.80 – 0.97
	NH Asian/Pacific Islander	20	0.51	0.31 – 0.78

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Transposition of the great vessels*	Non-Hispanic (NH) White	1,172	3.68	3.47 – 3.89
	NH Black	241	2.28	1.99 – 2.56
	Hispanic	1,504	3.39	3.22 – 3.56
	NH Asian/Pacific Islander	119	3.01	2.47 – 3.55
Double outlet right ventricle*	NH White	648	2.03	1.88 – 2.19
	NH Black	264	2.49	2.19 – 2.80
	Hispanic	1,164	2.62	2.47 – 2.78
	NH Asian/Pacific Islander	76	1.92	1.52 – 2.41
Tetralogy of Fallot*	NH White	1,252	3.93	3.71 – 4.15
	NH Black	493	4.66	4.25 – 5.07
	Hispanic	1,688	3.81	3.62 – 3.99
	NH Asian/Pacific Islander	176	4.45	3.80 – 5.11
Ventricular septal defect*	NH White	17,881	56.14	55.31 – 56.96
	NH Black	5,282	49.91	48.56 – 51.25
	Hispanic	31,703	71.48	70.70 – 72.27
	NH Asian/Pacific Islander	1,973	49.93	47.73 – 52.14
Atrial septal defect*	NH White	21,485	67.45	66.55 – 68.35
	NH Black	8,246	77.91	76.23 – 79.59
	Hispanic	35,115	79.18	78.35 – 80.00
	NH Asian/Pacific Islander	2,173	55.00	52.68 – 57.31
Atrioventricular septal defect (endocardial cushion defect)*	NH White	1,527	4.79	4.55 – 5.03
	NH Black	577	5.45	5.01 – 5.90
	Hispanic	1,798	4.05	3.87 – 4.24
	NH Asian/Pacific Islander	112	2.83	2.31 – 3.36
Pulmonary valve atresia or stenosis*	NH White	2,886	9.06	8.73 – 9.39
	NH Black	1,222	11.55	10.90 – 12.19
	Hispanic	4,817	10.86	10.55 – 11.17
	NH Asian/Pacific Islander	268	6.78	5.97 – 7.59
Tricuspid valve atresia or stenosis*	NH White	561	1.76	1.62 – 1.91
	NH Black	242	2.29	2.00 – 2.57
	Hispanic	888	2.00	1.87 – 2.13
	NH Asian/Pacific Islander	73	1.85	1.45 – 2.32
Ebstein anomaly*	NH White	243	0.76	0.67 – 0.86
	NH Black	45	0.43	0.31 – 0.57
	Hispanic	383	0.86	0.78 – 0.95
	NH Asian/Pacific Islander	31	0.78	0.53 – 1.11
Aortic valve stenosis*	NH White	886	2.78	2.60 – 2.96
	NH Black	158	1.49	1.26 – 1.73
	Hispanic	1,109	2.50	2.35 – 2.65
	NH Asian/Pacific Islander	62	1.57	1.20 – 2.01
Hypoplastic left heart syndrome*	NH White	818	2.57	2.39 – 2.74
	NH Black	238	2.25	1.96 – 2.53
	Hispanic	944	2.13	1.99 – 2.26
	NH Asian/Pacific Islander	40	1.01	0.72 – 1.38

Birth Defect	Mother's Race/Ethnicity	Cases (count)	Prevalence (rate)	Confidence Interval (95% for Prevalence)
Patent ductus arteriosus*	Non-Hispanic (NH) White	15,942	50.05	49.27 – 50.83
	NH Black	5,744	54.27	52.87 – 55.67
	Hispanic	27,360	61.69	60.96 – 62.42
	NH Asian/Pacific Islander	1,823	46.14	44.02 – 48.26
Coarctation of the aorta*	NH White	1,868	5.86	5.60 – 6.13
	NH Black	412	3.89	3.52 – 4.27
	Hispanic	2,428	5.47	5.26 – 5.69
	NH Asian/Pacific Islander	145	3.67	3.07 – 4.27
Respiratory				
Choanal atresia or stenosis*	NH White	468	1.47	1.34 – 1.60
	NH Black	138	1.30	1.09 – 1.52
	Hispanic	543	1.22	1.12 – 1.33
	NH Asian/Pacific Islander	30	0.76	0.51 – 1.08
Agenesis, aplasia, or hypoplasia of the lung*	NH White	782	2.46	2.28 – 2.63
	NH Black	344	3.25	2.91 – 3.59
	Hispanic	1,425	3.21	3.05 – 3.38
	NH Asian/Pacific Islander	76	1.92	1.52 – 2.41
Orofacial				
Cleft palate alone (without cleft lip)*	NH White	2,113	6.63	6.35 – 6.92
	NH Black	475	4.49	4.08 – 4.89
	Hispanic	2,533	5.71	5.49 – 5.93
	NH Asian/Pacific Islander	256	6.48	5.69 – 7.27
Cleft lip with or without cleft palate*	NH White	3,497	10.98	10.61 – 11.34
	NH Black	762	7.20	6.69 – 7.71
	Hispanic	5,085	11.47	11.15 – 11.78
	NH Asian/Pacific Islander	378	9.57	8.60 – 10.53
Gastrointestinal				
Tracheoesophageal fistula/ esophageal atresia*	NH White	804	2.52	2.35 – 2.70
	NH Black	202	1.91	1.65 – 2.17
	Hispanic	921	2.08	1.94 – 2.21
	NH Asian/Pacific Islander	63	1.59	1.23 – 2.04
Pyloric stenosis*	NH White	5,598	17.57	17.11 – 18.04
	NH Black	690	6.52	6.03 – 7.01
	Hispanic	7,926	17.87	17.48 – 18.26
	NH Asian/Pacific Islander	174	4.40	3.75 – 5.06
Stenosis or atresia of the small intestine*	NH White	1,049	3.29	3.09 – 3.49
	NH Black	367	3.47	3.11 – 3.82
	Hispanic	1,629	3.67	3.49 – 3.85
	NH Asian/Pacific Islander	95	2.40	1.95 – 2.94
Stenosis or atresia of large intestine, rectum, or anal canal*	NH White	1,624	5.10	4.85 – 5.35
	NH Black	461	4.36	3.96 – 4.75
	Hispanic	2,592	5.84	5.62 – 6.07
	NH Asian/Pacific Islander	174	4.40	3.75 – 5.06
Hirschsprung disease*	NH White	551	1.73	1.59 – 1.87
	NH Black	246	2.32	2.03 – 2.61
	Hispanic	429	0.97	0.88 – 1.06
	NH Asian/Pacific Islander	75	1.90	1.49 – 2.38

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Biliary atresia*	Non-Hispanic (NH) White	175	0.55	0.47 – 0.63
	NH Black	99	0.94	0.76 – 1.14
	Hispanic	310	0.70	0.62 – 0.78
	NH Asian/Pacific Islander	47	1.19	0.87 – 1.58
Genitourinary				
Hypospadias (among males)*	NH White	14,056	86.05	84.62 – 87.47
	NH Black	4,083	75.83	73.51 – 78.16
	Hispanic	9,654	42.69	41.83 – 43.54
	NH Asian/Pacific Islander	1,233	60.54	57.16 – 63.92
Renal agenesis or dysgenesis*	NH White	2,038	6.40	6.12 – 6.68
	NH Black	706	6.67	6.18 – 7.16
	Hispanic	3,062	6.90	6.66 – 7.15
	NH Asian/Pacific Islander	222	5.62	4.88 – 6.36
Bladder exstrophy*	NH White	92	0.29	0.23 – 0.35
	NH Black	22	0.21	0.13 – 0.31
	Hispanic	43	0.10	0.07 – 0.13
	NH Asian/Pacific Islander	10	0.25	0.12 – 0.47
Musculoskeletal				
Congenital hip dislocation (without hip dysplasia)*	NH White	922	2.89	2.71 – 3.08
	NH Black	139	1.31	1.09 – 1.53
	Hispanic	1,080	2.44	2.29 – 2.58
	NH Asian/Pacific Islander	73	1.85	1.45 – 2.32
Talipes equinovarus (clubfoot)*	NH White	5,549	17.42	16.96 – 17.88
	NH Black	1,804	17.04	16.26 – 17.83
	Hispanic	7,582	17.10	16.71 – 17.48
	NH Asian/Pacific Islander	448	11.34	10.29 – 12.39
Reduction defects of the upper limbs*	NH White	1,312	4.12	3.90 – 4.34
	NH Black	453	4.28	3.89 – 4.67
	Hispanic	1,885	4.25	4.06 – 4.44
	NH Asian/Pacific Islander	107	2.71	2.19 – 3.22
Reduction defects of the lower limbs*	NH White	616	1.93	1.78 – 2.09
	NH Black	288	2.72	2.41 – 3.04
	Hispanic	849	1.91	1.79 – 2.04
	NH Asian/Pacific Islander	38	0.96	0.68 – 1.32
Craniosynostosis*	NH White	2,303	7.23	6.93 – 7.53
	NH Black	277	2.62	2.31 – 2.93
	Hispanic	2,500	5.64	5.42 – 5.86
	NH Asian/Pacific Islander	132	3.34	2.77 – 3.91
Achondroplasia*	NH White	144	0.45	0.38 – 0.53
	NH Black	43	0.41	0.29 – 0.55
	Hispanic	117	0.26	0.22 – 0.31
	NH Asian/Pacific Islander	25	0.63	0.41 – 0.93
Diaphragmatic hernia*	NH White	915	2.87	2.69 – 3.06
	NH Black	250	2.36	2.07 – 2.65
	Hispanic	1,342	3.03	2.86 – 3.19
	NH Asian/Pacific Islander	93	2.35	1.90 – 2.88

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Omphalocele*	Non-Hispanic (NH) White	720	2.26	2.10 – 2.43
	NH Black	262	2.48	2.18 – 2.78
	Hispanic	921	2.08	1.94 – 2.21
	NH Asian/Pacific Islander	66	1.67	1.29 – 2.13
Gastroschisis*	NH White	1,582	4.97	4.72 – 5.21
	NH Black	348	3.29	2.94 – 3.63
	Hispanic	2,573	5.80	5.58 – 6.03
	NH Asian/Pacific Islander	76	1.92	1.52 – 2.41
Chromosomal				
Down syndrome (trisomy 21)*	NH White	3,998	12.55	12.16 – 12.94
	NH Black	1,132	10.70	10.07 – 11.32
	Hispanic	7,061	15.92	15.55 – 16.29
	NH Asian/Pacific Islander	437	11.06	10.02 – 12.10
Patau syndrome (trisomy 13)	NH White	366	1.15	1.03 – 1.27
	NH Black	139	1.31	1.09 – 1.53
	Hispanic	486	1.10	1.00 – 1.19
	NH Asian/Pacific Islander	43	1.09	0.79 – 1.47
Edwards syndrome (trisomy 18)	NH White	752	2.36	2.19 – 2.53
	NH Black	288	2.72	2.41 – 3.04
	Hispanic	1,102	2.48	2.34 – 2.63
	NH Asian/Pacific Islander	97	2.45	1.99 – 2.99
Infants & fetuses with regular reportable birth defects*	NH White	166,847	523.82	521.30 – 526.33
	NH Black	57,162	540.08	535.66 – 544.51
	Hispanic	226,591	510.90	508.80 – 513.01
	NH Asian/Pacific Islander	18,847	477.00	470.19 – 483.81

Prevalence (rate) is expressed as the number of cases per 10,000 live births.

*Statistically significant difference in prevalence between at least two race/ethnicity groups [$p < 0.05$].

Please see the Methods section of the Annual Report for additional information:

<https://www.dshs.texas.gov/sites/default/files/birthdefects/annualreport/methods.pdf>

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